SLRFLR.0009P PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	:	George A. Zimmerman, et al.	Group Art Unit Unknown
App. No.	:	10/603,498	
Filed	:	June 24, 2003	
For	:	METHOD AND APPARATUS FOR PRECODE CROSSTALK MITIGATION	
Examiner	:	Unknown	

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

January 13, 2004
(Date)

C. Miller
Chad W. Miller, Reg. No. 44,943

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing references that are also enclosed. This Information Disclosure Statement is being filed before the mailing of the first Office Action on the merits, and as such, no fee is required in accordance with 37 C.F.R. § 1.97(b)(3).

Respectfully submitted,

Dated: 1/13/04

By: C. Miller

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. SLRFLR.0009P	APPLICATION NO. 10/603,498
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	APPLICANT George A. Zimmerman, et al.	
	FILING DATE June 24, 2003	GROUP Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
		4,359,778	11/1982	Lee			
		4,583,235	04/1986	Dömer, et al.			
		6,088,827	07/2000	Rao			
		6,167,082	12/2000	Ling, et al.			
		6,201,831 B1	03/2001	Agazzi, et al.			
		6,226,332 B1	05/2001	Agazzi, et al.			
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		6,252,904 B1	06/2001	Agazzi, et al.			
		6,356,555 B1	03/2002	Rakib, et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	TRANSLATION NO

EXAMINER INITIAL		**OTHER DOCUMENTS** (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)
		Oscar Agazzi, et al., "10Gb/s PMD Using PAM-5 Trellis Coded Modulation", Broadcom, *IEEE* 802.3, Albuquerque, New Mexico, March 6-10, 2000, 38 pages
		Jamie E. Kardontchik, "4D Encoding in Level-One's Proposal for 1000BAS-T", Advanced Micro Devices, August 21, 1997 - Rev. B, pp. 1-24
		Erich F. Haratsch, et al., "A 1-Gb/s Joint Equalizer and Trellis Decoder for 1000BASE-T Gigabit Ethernet", *IEEE Journal of Solid-State Circuits*, Vol. 36, No. 3, March 2001, pp. 374-384
		Mehdi Hatamian, et al., "Design Considerations for Gigabit Thernet 1000Base-T Twisted Pair Transceivers", IEEE 1998 Custom Integrated Circuits Conference, pp. 335-342
		Gottfried Ungerboeck, "Trellis-Coded Modulation with Redundant Signal Sets", *IEEE Communications Magazine*, February 1987, Vol. 25, No. 2, pp. 5-21
		"Gigabit Ethernet Over Category 5", Copyright 2000-2001 Agilent Technologies, 12 pages

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	June 24, 2003	Unknown

		M.P. Sellers, et al., "Stabilized Precoder for Indoor Radio Communications", *IEEE Communications Letters*, Vol. 4, No. 10, October 2000, pp. 315-317
		"Wirescope 350 - Understanding ELFEXT", © 2000 Agilent Technologies, 2 pages
		David Crawford, "Adaptive Filters", © David Crawford 1996, pp. 1-5
		David A. Johns, et al., "Integrated Circuits for Data Transmission Over Twisted-Pair Channels", *IEEE Journal of Solid-State Circuits*, Vol. 32, No. 3, March 1997, pp. 398-406
		Prof. David Johns, University of Toronto, "Equalization", © D.A. Johns 1997, 29 pages
		David Smalley, "Equalization Concepts: A Tutorial", Atlanta Regional Technology Center, Texas Instruments, pp. 1-29, October 1994
		Shao-Po Wu, et al., "FIR Filter Design via Spectral Factorization and Convex Optimization", to appear as Chapter 1 of *Applied Computational Control, Signal and Communications*, Biswa Datta Editor, Birkhauser, 1977, pp. 1-33
		Richard D. Wesel, et al., "Achievable Rates for Tomlinson-Harashima Precoding", *IEEE Transactions on Information Theory*, Vol. 44, No. 2, March 1998, pp. 824-831
		Wolfgang H. Gerstacker, et al., "Blind Equalization Techniques for xDSL Using Channel Coding and Precoding", submitted to AEÜ Int. J. Electr. Commun., pp. 1-4, May 1999
		Chip Fleming, "A Tutorial on Convolutional Coding with Viterbi Decoding", © 1999-2002, Spectrum Applications, pp. 1-6
		"ELFEXT - Introduction", Fluke Networks™, ©2000, pp. 1-2
		"Iowegian's dspGuru FIR FAQ Part 2: Properties", © 1999-2000 Iowegian International Corp., pp. 1-4
		Hiroshi Harashima, et al., "Matched-Transmission Technique for Channels with Intersymbol Interference", *IEEE Transactions on Communications*, Vol. COM-20- No.4, August 1972, pp. 774-780
		M. Tomlinson, "New Automatic Equaliser Employing Modulo Arithmetic", *Electonic Letters*, Vol. 7, 1971, pp. 138-139
		Peter Kabal, et al., "Partial-Response Signaling", *IEEE Transactions on Communications*, Vol. COM-23, No. 9, September 1975, pp. 921-934
		Robert F. H. Fischer, et al., "Dynamics Limited Precoding, Shaping, and Blind Equalization for Fast Digital Transmission over Twised Pair Lines, *IEEE Journal on Selected Areas in Communications*, Vol. 13, No. 9, December 1995, pp. 1622-1633
		Robert F. H. Fischer, et al., "Comparison of Precoding Schemes for Digital Subscriber Lines", *IEEE Transactions on Communications*, Vol. 45, No. 3, March 1997

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		"28.5 Protocol Implementation Conformance Statement (PICS) Proforma for Clause 28, Physical Layer Link Signaling for 10 Mb/s, 100 Mb/s and 1000 Mb/s Auto-Negotiation on Twisted Pair", *IEEE Std. 802.3*, 1998 Edition, pp. 6-14 and 18-44

EXAMINER	DATE CONSIDERED

***EXAMINER:** INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.